

Claims

- [c1] 1. A format conversion method for changing format of ring tone data used by a mobile communication device, the mobile communication device being capable of playing at least a ring tone according to an associated ring tone data complying with a predetermined format to inform a user of a call, the format conversion method comprising:
receiving a first ring tone data complying with a first format; and
converting the first ring tone data complying with the first format into a second ring tone data complying with the predetermined format according to a predetermined conversion rule;
wherein both the first ring tone data and the second ring tone data correspond to an identical ring tone.
- [c2] 2. The format conversion method of claim 1 wherein the mobile communication device comprises a database of ring tone formats for recording at least a first format related to the first ring tone data.
- [c3] 3. The format conversion method of claim 2 further comprising identifying first format of the first ring tone data according to the database of ring tone formats to determine whether the first ring tone data are valid.
- [c4] 4. The format conversion method of claim 2 wherein the mobile communication device further comprises a database of conversion rules for recording at least a predetermined conversion rule, and each predetermined conversion rule is individually associated with a first format of the first ring tone data.
- [c5] 5. The format conversion method of claim 1 further comprising storing the second ring tone data complying with the predetermined format.
- [c6] 6. The format conversion method of claim 1 wherein the mobile communication device further comprises a database of ring tones for recording the second ring tone data complying with the predetermined format.
- [c7] 7. The format conversion method of claim 1 wherein the mobile communication device is a cellular phone.

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- [c8] 8. A mobile communication device comprising:
 - a storage module for storing at least a first format and a conversion rule associated with the first format;
 - a receiving module for receiving a first ring tone data;
 - a processor electrically connected to the storage module and the receiving module for determining whether the first ring tone data comply with the first format; and
 - a conversion module electrically connected to the processor and the storage module for converting the first ring tone data complying with the first format into a second ring tone data complying with a second format according to the conversion rule;
 - wherein when the first ring tone data comply with the first format, the conversion module is activated to generate the second ring tone data so that the mobile communication device can play a ring tone according to the second ring tone data.
 - [c9] 9. The mobile communication device of claim 8 wherein the storage module comprises a database of ring tone formats for storing a plurality of first formats to identify the first ring tone data.
 - [c10] 10. The mobile communication device of claim 9 wherein the storage module further comprises a database of conversion rules for storing a plurality of conversion rules, and each conversion rule is individually associated with a first format for converting the first format into the corresponding second format.
 - [c11] 11. The mobile communication device of claim 8 wherein the storage module comprises a database of ring tones for storing the second ring tone data complying with the second format.
 - [c12] 12. The mobile communication device of claim 8 being a cellular phone.
 - [c13] 13. The mobile communication device of claim 8 further comprising a display module electrically connected to the processor for informing a user about operation status of the mobile communication device.
 - [c14] 14. The mobile communication device of claim 13 wherein the display module

informs the user that the first ring tone data are invalid when the first ring tone data are not complying with the first format.